

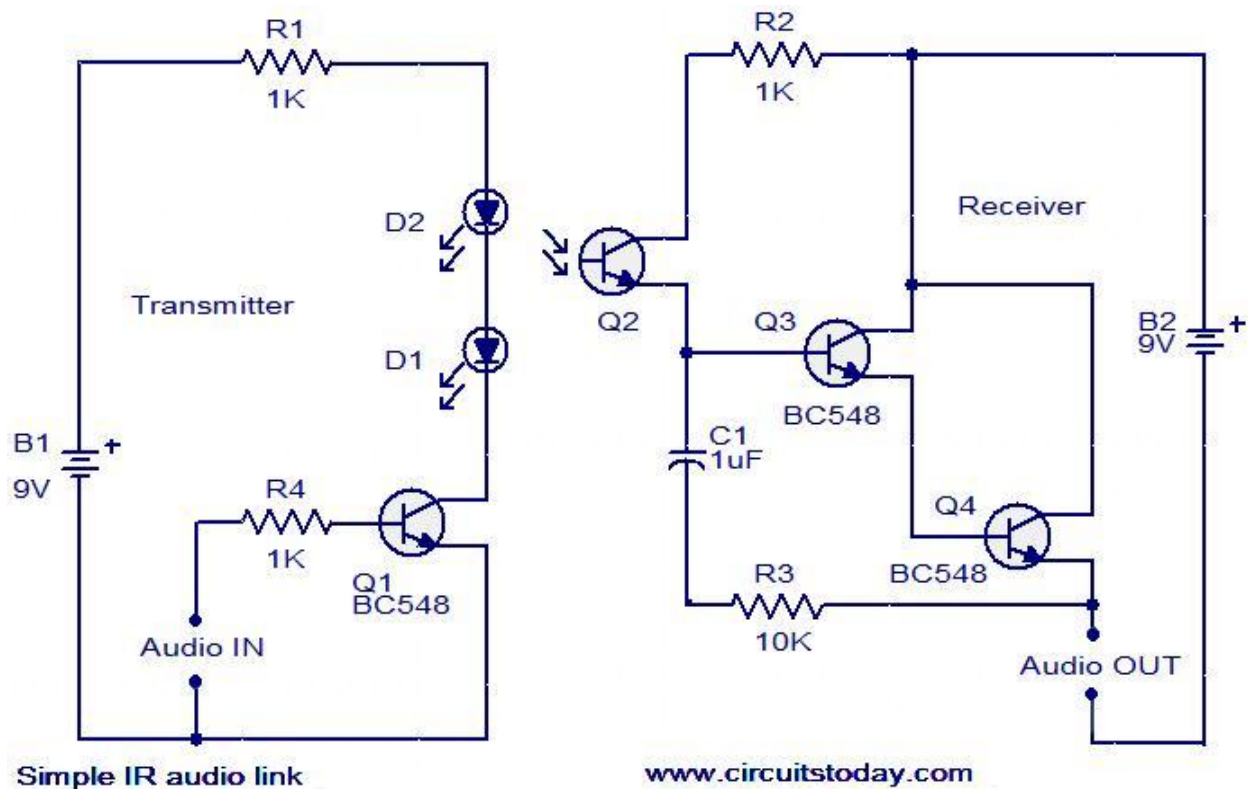
SIMPLE IR AUDIO LINK

Description.

Here is a simple IR audio link that can be used to transmit audio signals up to 4 meters. The signal to be transmitted is applied to the base of Q1 via resistor R4. The transistor Q1 drives the IR transmitting diodes D1 and D2. The audio input will be modulated to the IR signals transmitted.

The transmitted IR signals will be picked by the photo transistor Q2. The emitter voltage of the transistor Q2 will change according to the sound modulated to the IR signal. The transistors Q3 and Q4 amplifies this signal to drive the speaker or headphone. C1 and R3 forms a filter to avoid interference from stray IR signals.

Circuit diagram with Parts list.



Notes

The circuit can be assembled on a general purpose PCB.

Use 9V PP3 batteries for powering the transmitter and receiver.

The phototransistor Q2 can be any NPN phototransistor like PNZ154, PNA1605F, BPW77NA or BPW85.

An 8 Ohm speaker or a headphone can be used to hear the sound.

Source: <http://www.circuitstoday.com/simple-ir-audio-link>